Green Heating Technology

ITALTHERM

НАРУЖНЫЕ ГАЗОВЫЕ КОТЛЫ

City Box 24F, 30F, 26K, 26KR

ТЕХНИЧЕСКИЕ ХАРАКТЕРИСТИКИ

traditional **24 F 30 F**

Range City Box

Features

- Easy to be installed
- Engineered to be installed outdoor (1) in a partially protected place
- Designed to allow an easy maintenance
- It can manage multi-zone CH system (having the internal pump exclusion feature)
- It can be connected to an outdoor temperature sensor (optional)
- Includes the original Remote Control with weekly climatic programmer and self-diagnosis
- User friendly controls
- IP X5D electrical protection
- Chimney sweep mode and adjustment menu (TSP) through the Remote Control
- Adjustable CH heat power output
- Brass hydraulic group
- DHW output up to 17.2 l/min (mod. 30 F)
- High efficiency and low consumptions
- Microprocessor electronic system
- Stainless steel, plate-to-plate DHW exchanger
- Electrical three-way valve
- Low energy multi-speed pump
- Automatic hydraulic by-pass, outside the exchanger
- Timed post-circulation
- Anti-freeze function on both DHW and CH sides
- Anti-freeze electric heaters, supplied, with control thermostat
- Function to prevent the block of the pump and of the three-way valve
- Filter on boiler water inlet
- Automatic system pressure restore with safety limitations on filling cycles number and duration
- System filling electrovalve, with manual actuation and additional thin-mesh water filter

Range

City Box 24 F

24 kW, fan flue boiler with plate-to-plate DHW exchanger

City Box 30 F

30 kW, fan flue boiler with plate-to-plate DHW exchanger

Solar compatible (2)

(1) temperature: –15°C ÷ +60°C

(2) using the optional Solar Kit with fittings

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condensing

26 K
26 KR

Range City Box

Features

- Easy to be installed
- Engineered to be installed outdoor (1) in a partially protected place
- Designed to allow an easy maintenance
- Double thermostatic temperature control, ideal for high + low temperature heating systems (optional kit available)
- It can manage multi-zone CH system (having the internal pump exclusion feature)
- It can be connected to an outdoor temperature sensor (optional)
- Includes the original Remote Control with weekly climatic programmer and self-diagnosis
- User friendly controls
- IP X5D electrical protection
- Chimney sweep mode and adjustment menu (TSP) through the Remote Control
- Adjustable CH heat power output
- Brass hydraulic group
- DHW output up to 14.6 l/min (mod. 26 K)
- High efficiency with reduced consumptions
- Microprocessor electronic system
- Condensate trap with dry closing device
- Stainless steel, plate-to-plate DHW exchanger (mod. 26 K)
- Connections for the flow/return of the remote DHW storage tank coil (model 26 KR)
- Electrical three-way valve (also on model 26 KR)
- Low energy multi-speed pump
- Automatic hydraulic by-pass, outside the exchanger
- Timed post-circulation
- Anti-freeze function on both DHW and CH sides
- Anti-freeze electric heaters, supplied, with control thermostat
- Function to prevent the block of the pump and of the three-way valve
- Filter on boiler water inlet
- Automatic system pressure restore with safety limitations on filling cycles number and duration
- System filling electrovalve, with manual actuation and additional thin-mesh water filter

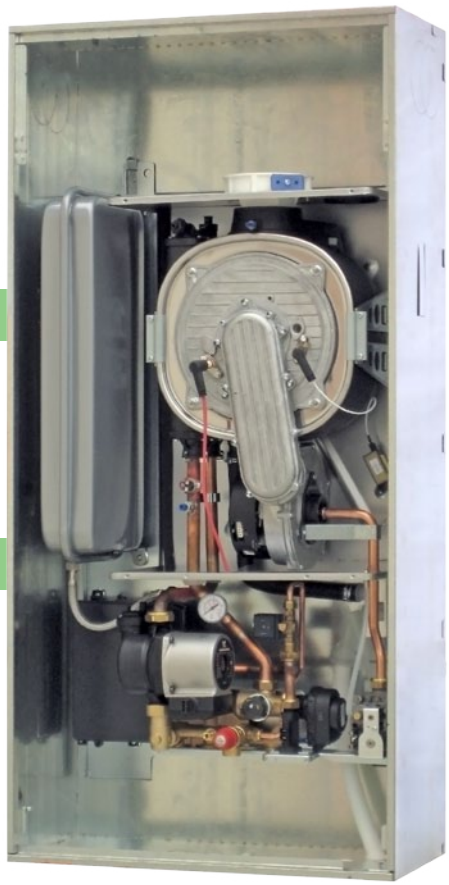
Range

City Box 26 K

26 kW, fan flue boiler
with plate-to-plate
DHW exchanger

City Box 26 KR

26 kW, fan flue boiler
with connections for a remote
DHW storage tank



Solar compatible (2)

(1) temperature: –10°C ÷ +60°C

(2) using the optional Solar Kit with fittings

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Technical data *traditional combustion models*

Description	*Unit of measure*	*City Box 24 F*	*City Box 30 F*
CE certification		0694 CM 3400	0694 CM 3400
Class		II_{2H3+}	II_{2H3+}
Type		B22 - C12 - C32 - C42 - C52 - C62 - C82 - C92	
Working temperature range (min÷max)	°C	–15 ÷ +60	–15 ÷ +60
Reference Gas		G20	G20
Max heat input	kW	25.7	32
Min heat input	kW	10.3	13
Max heat output	kW	23.8	29.9
Min heat output	kW	9.1	11.2
NOx Class		2	3
CO at 0% O_2 (Qn)	ppm	58	79
CO_2 at nominal input	%	7.2	6.8
Flue temperature (Qn)	°C	127	116
Flue mass flow rate (Qn)	kg/h	52.5	72.1
EFFICIENCY			
Nominal efficiency	%	92.8	93.5
Efficiency at 30% load	%	91.7	90.6
HEATING			
Temperature selection range (min÷max)	°C	35÷78	35÷78
Expansion vessel	l	10	10
Expansion vessel pressure	bar	1	1
Max working pressure	bar	3	3
Max system temperature	°C	83	83
Anti-freeze function on / off temperatures	°C	5 / 30	5 / 30
Anti-freeze electric heaters on / off temperatures	°C	5 / 16	5 / 16
DOMESTIC HOT WATER			
Flow rate at 25°C temperature rise	l/min	13.7	17.2
Flow rate at 30°C temperature rise	l/min	11.4	14.3
Min water flow (for the DHW function activation)	l/min	2.2	2.2
Min supply pressure (for the DHW function activation)	bar	0.5	0.5
Max supply pressure (data referred to the boiler only)	bar	6	6
Temperature selection range (min÷max)	°C	30÷55	30÷55
ELECTRICAL DATA			
Voltage / frequency (nominal voltage)	V / Hz	220÷240 / 50 (230V)	220÷240 / 50 (230V)
Power consumption (anti-freeze electric heaters off)	W	130	140
Anti-freeze electric heaters power consumption	W	34	34
Level of protection		IP X5D	IP X5D
DIMENSIONS			
Width - Height - Depth (box)	mm	550 x 1140 x 250	550 x 1140 x 250
Net weight of thermal unit	kg	37	41.5
Net weight of encasing box	kg	14	14
CONNECTIONS			
Hydraulic and gas connections		See page 10	See page 10
Coaxial inlet/outlet pipe diameter	mm	100/60	100/60
Min ÷ max length of coaxial inlet/outlet system	m	See page 3	See page 3
Split inlet and outlet pipes diameter	mm	80	80
Min ÷ max length of split system	m	See page 3	See page 3
GAS SUPPLY PRESSURE			
Nominal pressure	mbar	20	20
Inlet pressure (min÷max)	mbar	17 ÷ 25	17 ÷ 25
Injectors number		13	14
Injectors diameter	mm/100	120	130
GAS CONSUMPTION			
Qmax	m^3/h	2.72	3.38
Qmin	m^3/h	1.09	1.37

Technical data *condensing models*

Description	Unit of measure	City Box 26 K	City Box 26 KR
CE certification		0694 CM 3400	0694 CM 3400
Class		II_{2H3P}	II_{2H3P}
Type		B23 - B23P - C13 - C33 - C43 - C53 - C63 - C83 - C93	
Working temperature range (min÷max)	°C	–10 ÷ +60	–10 ÷ +60
Reference Gas		G20	G20
Max heat input	kW	26.2	26.2
Min heat input	kW	5.3	5.3
Max heat output 60°/80°C *	kW	25.4	25.4
Min heat output 60°/80°C *	kW	5.1	5.1
Max heat output 30°/50°C *	kW	27.5	27.5
Min heat output 30°/50°C *	kW	5.5	5.5
NOx Class		5	5
CO at 0% O_2 (Qn)	ppm	129.7	129.7
CO_2 at nominal input	%	9.2	9.2
Condense quantity at Qn (30°/50°C *)	l/h	2.3	2.3
Condense quantity at Qr (30°/50°C *)	l/h	0.5	0.5
Condense acidity	pH	2.8	2.8
Flue temperature (Qn)	°C	76.5	76.5
Flue mass flow rate (60/80°C * - Qn)	kg/h	42.61	42.61
EFFICIENCY			
Nominal efficiency at 60°/80°C *	%	96.9	96.9
Efficiency at 30% load at 60°/80°C *	%	100.4	100.4
Nominal efficiency at 30°/50°C *	%	105.1	105.1
Efficiency at 30% load at 30°/50°C *	%	107.2	107.2
HEATING			
Temperature selection range (min÷max) high temp. / low temp.	°C	35÷78 / 20÷45	35÷78 / 20÷45
Temperature selection range (min÷max) secondary heating circuit	°C	20÷78	20÷78
Expansion vessel	l	10	10
Expansion vessel pressure	bar	1	1
Max working pressure	bar	3	3
Max system temperature	°C	83	83
Anti-freeze function on / off temperatures	°C	5 / 30	5 / 30
Anti-freeze electric heaters on / off temperatures	°C	5 / 16	5 / 16
DOMESTIC HOT WATER			
Flow rate at 25°C temperature rise	l/min	14.6	—
Flow rate at 30°C temperature rise	l/min	12.1	—
Min water flow (for the DHW function activation)	l/min	2.2	—
Min supply pressure (for the DHW function activation)	bar	0.5	—
Max supply pressure (data referred to the boiler only)	bar	6	6
Temperature selection range (min÷max)	°C	30÷55	30÷60
ELECTRICAL DATA			
Voltage / frequency (nominal voltage)	V / Hz	220÷240 / 50 (230V)	220÷240 / 50 (230V)
Power consumption (anti-freeze electric heaters off)	W	165	165
Anti-freeze electric heaters power consumption	W	34	34
Level of protection		IP X5D	IP X5D
DIMENSIONS			
Width - Height - Depth (box)	mm	550 x 1140 x 250	550 x 1140 x 250
Net weight of thermal unit	kg	37	35
Net weight of encasing box	kg	14	14
CONNECTIONS			
Hydraulic and gas connections		See page 10	See page 10
Coaxial inlet/outlet pipe diameter	mm	100/60	100/60
Min ÷ max length of coaxial inlet/outlet system	m	See page 5	See page 5
Split inlet and outlet pipes diameter	mm	80 o 60	80 o 60
Min ÷ max length of split system	m	See page 5	See page 5
Fan head loss	Pa	40 ÷ 150	40 ÷ 150
GAS SUPPLY PRESSURE			
Nominal pressure	mbar	20	20
Inlet pressure (min÷max)	mbar	17 ÷ 25	17 ÷ 25
Gas valve diaphragm diameter	mm	5.5	5.5
GAS CONSUMPTION			
Qmax	m³/h	2.77	2.77
Qmin	m³/h	0.56	0.56

* *system return temperature / system flow temperature*
Remark: *data have been measured with horizontal coaxial flue, length = 1 m*

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